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☐ 1: CAA37824 Reports BLink, Domains, Links
unnamed protein product [Gallus gallus]
gi|63566|emb|CAA37824.1|[63566]

☐ 2: NP_990615 Reports BLink, Domains, Links
lactate dehydrogenase A [Gallus gallus]
gi|45384208|ref|NP_990615.1|[45384208]

☐ 3: NP_989508 Reports BLink, Domains, Links
lactate dehydrogenase B [Gallus gallus]
gi|45383766|ref|NP_989508.1|[45383766]

☐ 4: S12151 Reports BLink, Domains, Links
L-lactate dehydrogenase (EC 1.1.1.27) chain A - chicken
gi|104751|pir||S12151[104751]

☐ 5: P00340 Reports BLink, Domains, Links
L-lactate dehydrogenase A chain (LDH-A)
gi|126046|sp|P00340|LDHA_CHICK[126046]

☐ 6: XP_424417 Reports BLink, Domains, Links
PREDICTED: similar to glyoxylate reductase/hydroxypyruvate reductase
[Gallus gallus]
gi|50806329|ref|XP_424417.1|[50806329]

☐ 7: XP_423785 Reports BLink, Domains, Links
PREDICTED: similar to CTBP2 protein, partial [Gallus gallus]
gi|50795561|ref|XP_423785.1|[50795561]

☐ 8: XP_427994 Reports BLink, Domains, Links
PREDICTED: similar to C-terminal binding protein, partial [Gallus gallus]

gi|50794313|ref|XP_427994.1|[50794313]

☐ 9:

XP_417331

Reports

BLink, Domains, Links

PREDICTED: similar to adenine homocysteine hydrolase [Gallus gallus]
gi|50758593|ref|XP_417331.1|[50758593]

☐ 10:

XP_414670

Reports

BLink, Domains, Links

PREDICTED: similar to Tcf-3 co-repressor CtBP [Gallus gallus]
gi|50755244|ref|XP_414670.1|[50755244]

☐ 11:

XP_422226

Reports

BLink, Domains, Links

PREDICTED: similar to 3-phosphoglycerate dehydrogenase [Gallus gallus]
gi|50751002|ref|XP_422226.1|[50751002]

☐ 12:

XP_418901

Reports

BLink, Domains, Links

PREDICTED: hypothetical protein XP_418901 [Gallus gallus]
gi|50733529|ref|XP_418901.1|[50733529]

☐ 13:

AAG48560

Reports

BLink, Domains, Links

lactate dehydrogenase B [Gallus gallus]
gi|12082647|gb|AAG48560.1|AF218799_1[12082647]

☐ 14:

AAC27617

Reports



BLink, Domains, Links

lactate dehydrogenase H subunit [Gallus gallus]
gi|3342404|gb|AAC27617.1|[3342404]

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Range: from to Features: ☐ SNP ☐ CDD ☒ MGC ☐ HPRD ☐ STS

☐ 1: [CAA37824](#). Reports unnamed protein p...[gi:63566]

[BLink](#), [Domains](#),
[Links](#)

LOCUS CAA37824 332 aa linear VRT 18-APR-2005
 DEFINITION unnamed protein product [Gallus gallus].
 ACCESSION CAA37824
 VERSION CAA37824.1 GI:63566
 DBSOURCE embl locus GGLDHA, accession [X53828.1](#)
 KEYWORDS .
 SOURCE Gallus gallus (chicken)
 ORGANISM [Gallus gallus](#)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
 Phasianinae; Gallus.
 REFERENCE 1 (residues 1 to 332)
 AUTHORS Hirota,Y., Katsumata,A. and Takeya,T.
 TITLE Nucleotide and deduced amino acid sequences of chicken lactate
 dehydrogenase-A
 JOURNAL Nucleic Acids Res. 18 (21), 6432 (1990)
 PUBMED [2243792](#)
 REFERENCE 2 (residues 1 to 332)
 AUTHORS Takeya,T.
 TITLE Direct Submission
 JOURNAL Submitted (30-JUL-1990) Takeya T., Institute for Chemical Research,
 Kyoto University, Gokasho, Uji, Kyoto 611, Japan
 FEATURES Location/Qualifiers
 source 1..332
 /organism="Gallus gallus"
 /db_xref="taxon:9031"
 /clone="YH1A"
 /cell_type="fibroblast"
 /dev_stage="embryo"
 Protein 1..332
 /name="unnamed protein product"
 CDS 1..332
 /coded_by="X53828.1:60..1058"
 /note="L-lactate dehydrogenase A-chain"
 /db_xref="GOA:P00340"
 /db_xref="UniProt/Swiss-Prot:P00340"

ORIGIN

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1 mslkdhlhln vhkeehahah nkisvvgvga vgmacaaisil mkdladeltl vdvvedklkg
61 emldlqhgs1 flktpkiisg kdysvtahsk lvivtagarq qegesrlnlv qrnvnifkfi
121 ipnvvkyspd ckllivsnvp diltvawki sgfpkhrvig sgcnl dsarf rhlmgerlgi
181 hplschgwiw gehgdssvpv wsgvnavgvs lkalhpdmgd dadkehkwkev hkqvvdsaye
241 viklkgysw aiglsvadla etimknllrv hpistavkgm hgikddvfls vpcvlgssgi
301 tdvvmilkp deekikkksa dtlwgigqkel qf

```

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☐ 1: [NP_990615](#). Reports lactate dehydroge...[gi:45384208]

[BLink](#), [Domains](#),
[Links](#)

LOCUS NP_990615 332 aa linear VRT 16-APR-2005
 DEFINITION lactate dehydrogenase A [Gallus gallus].
 ACCESSION NP_990615
 VERSION NP_990615.1 GI:45384208
 DBSOURCE REFSEQ: accession [NM_205284.1](#)
 KEYWORDS .

SOURCE Gallus gallus (chicken)
 ORGANISM [Gallus gallus](#)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
 Phasianinae; Gallus.

REFERENCE 1 (residues 1 to 332)

AUTHORS Hirota,Y., Katsumata,A. and Takeya,T.

TITLE Nucleotide and deduced amino acid sequences of chicken lactate dehydrogenase-A

JOURNAL Nucleic Acids Res. 18 (21), 6432 (1990)

PUBMED [2243792](#)

COMMENT PROVISIONAL REFSEQ: This record has not yet been subject to final NCBI review. The reference sequence was derived from [X53828.1](#).

FEATURES Location/Qualifiers
 source 1..332
 /organism="Gallus gallus"
 /db_xref="taxon:9031"
 Protein 1..332
 /product="lactate dehydrogenase A"
 /EC_number="1.1.1.27"
 CDS 1..332
 /gene="LDHA"
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ORIGIN

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1 mslkdhlhnh vhkeehahah nkisvvgvga vgmaccasil mkdladeltl vdvvedklkg
61 emldlqhghsl flktpkiisg kdysvtahsk lvivtagarq qegesrlnlv qrnvnifkfi
121 ipnvvkyspd ckllivsnvp diltvawki sgfpkhrvig sgcnlldsarf rhlmggerlgi
181 hplschgwiv gehgdssvpv wsgvvnagvs lkahpdmgt dadkehkwkev hkqvvdssaye
241 viklkgysw aiglsvadla etimknllrv hpistavkgm hgikddvfls vpcvlgssgi
301 tdvvkmilkp deekikksa dtlwgiqkel qf

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[Limits](#)[Preview/Index](#)[History](#)[Clipboard](#)[Details](#)Range: from to Features: ☐ SNP ☐ CDD ☒ MGC ☐ HPRD ☐ STS☐ 1: [S12151](#). Reports L-lactate dehydro...[gi:104751][BLink](#), [Domains](#),
[Links](#)

LOCUS S12151 332 aa linear VRT 11-JUN-1999
 DEFINITION L-lactate dehydrogenase (EC 1.1.1.27) chain A - chicken.
 ACCESSION S12151
 VERSION S12151 GI:104751
 DBSOURCE pir: locus S12151;

summary: #length 332 #molecular-weight 36514 #checksum 4092

; superfamily: L-lactate dehydrogenase

; PIR dates: 02-Dec-1993 #sequence_revision 10-Nov-1995 #text_change 11-Jun-1999

KEYWORDS oxidoreductase.

SOURCE Gallus gallus (chicken)

ORGANISM Gallus gallus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
 Phasianinae; Gallus.

REFERENCE 1 (residues 1 to 332)

AUTHORS Hirota,Y., Katsumata,A. and Takeya,T.

TITLE Nucleotide and deduced amino acid sequences of chicken lactate dehydrogenase-A

JOURNAL Nucleic Acids Res. 18 (21), 6432. (1990)

PUBMED [2243792](#)

FEATURES

source

Location/Qualifiers

1..332

/organism="Gallus gallus"

/db_xref="taxon:9031"

Protein

1..332

/product="L-lactate dehydrogenase chain A"

/EC_number="1.1.1.27"

Site

166

/site_type="active"

/note="Asp, His"

/evidence=not_experimental

Site

193

/site_type="active"

/note="Asp, His"

/evidence=not_experimental

ORIGIN

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1 mslkdhlihn vhkeehahah nkisvvgvga vgmacaaisil mkdladeltl vdvvedklkg
61 emldlqhgs1 flktpkiisg kdysvtahsk lvivtagarq qegesrlnlv qrnvnifkfi
121 ipnvvkyspd ckllivsnpv diltvawki sgfpkhrvig sgcnl dsarf rhlmgerlgi
181 hpls chgwiv gehgdssvpv wsgv nvagvs lkahpdmgt dadkeh wkev hkqv vdsaye



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241 viklkgytsw aiglsvadla etimknlrrv hpistavkgm hgikddvfls vpcvlgssgi
301 tdvvkmilkp deekikksa dtlwgiqkel qf

//

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Range: from to
 Features:
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 ☐ CDD
 ☒ MGC
 ☐ HPRD
 ☐ STS

☐ 1: [P00340](#). Reports L-lactate dehydro...[gi:126046]
 BLink, Domains, Links

LOCUS P00340 332 aa linear VRT 25-JAN-2005
 DEFINITION L-lactate dehydrogenase A chain (LDH-A).
 ACCESSION P00340
 VERSION P00340 GI:126046
 DBSOURCE swissprot: locus LDHA_CHICK, accession [P00340](#);
 class: standard.
 created: Jul 21, 1986.
 sequence updated: Nov 1, 1991.
 annotation updated: Jan 25, 2005.
 xrefs: [X53828.1](#), [CAA37824.1](#), [DECHLM](#), [S12151](#)
 xrefs (non-sequence databases): HSSPP00338, InterProIPR001557,
 InterProIPR001236, PfamPF02866, PfamPF00056, PRINTSPR00086,
 TIGRFAMsTIGR01771, PROSITEPS00064
 KEYWORDS Direct protein sequencing; Glycolysis; Multigene family; NAD;
 Oxidoreductase.
 SOURCE Gallus gallus (chicken)
 ORGANISM [Gallus gallus](#)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
 Phasianinae; Gallus.
 REFERENCE 1 (residues 1 to 332)
 AUTHORS Hirota,Y., Katsumata,A. and Takeya,T.
 TITLE Nucleotide and deduced amino acid sequences of chicken lactate
 dehydrogenase-A
 JOURNAL Nucleic Acids Res. 18 (21), 6432 (1990)
 PUBMED 2243792
 REMARK NUCLEOTIDE SEQUENCE.
 REFERENCE 2 (residues 1 to 332)
 AUTHORS Torff,H.-J., Becker,D. and Schwarzwaldner,J.
 JOURNAL (in) Sund,H. (Ed.);
 PYRIDINE NUCLEOTIDE DEPENDENT DEHYDROGENASES: 31-42;
 Walter de Gruyter, Berlin (1977)
 REMARK PROTEIN SEQUENCE.
 COMMENT [CATALYTIC ACTIVITY] (S)-lactate + NAD(+) = pyruvate + NADH.
 [PATHWAY] Anaerobic glycolysis; final step.
 [SUBUNIT] Homotetramer.
 [SUBCELLULAR LOCATION] Cytoplasmic.
 [SIMILARITY] Belongs to the LDH/MDH superfamily. LDH family.

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                        /site_type="np-binding"
                        /note="NAD (By similarity)."
                        /evidence=experimental
    Region            63
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                        /region_name="Conflict"
                        /note="L -> M (in Ref. 2)."
                        /evidence=experimental
    Region            78
                        /gene="LDHA"
                        /region_name="Conflict"
                        /note="I -> T (in Ref. 2)."
                        /evidence=experimental
    Site              99
                        /gene="LDHA"
                        /site_type="binding"
                        /note="NAD (By similarity)."
                        /evidence=experimental
    Site              106
                        /gene="LDHA"
                        /site_type="binding"
                        /note="Substrate (By similarity)."
                        /evidence=experimental
    Site              138
                        /gene="LDHA"
                        /site_type="binding"
                        /note="Substrate (By similarity)."
                        /evidence=experimental
    Site              169
                        /gene="LDHA"
                        /site_type="binding"
                        /note="Substrate (By similarity)."
                        /evidence=experimental
    Region            192
                        /gene="LDHA"
                        /region_name="Conflict"
                        /note="E -> Q (in Ref. 2)."
                        /evidence=experimental
    Site              193
                        /gene="LDHA"
                        /site_type="active"
                        /note="Proton acceptor (By similarity)."
                        /evidence=experimental
    Site              248
                        /gene="LDHA"
                        /site_type="binding"
                        /note="Substrate (By similarity)."

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/evidence=experimental

ORIGIN

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1 mslkdhlihn vhkeehahah nkisvvgvga vgmacaaisil mkdladeltl vdvvedklkg
61 emldlqhgsf flktpkiisg kdysvtahsk lvivtagarq qegesrlnlv qrnvnifkfi
121 ipnvvkyspd ckllivsnpv diltyvawki sgfpkhrvig sgcnl dsarf rhlmgerlgi
181 hplschgwiv gehgdssvpv wsgvnavgvs lkalhpdmtg dadkeh wkev hkqv vdsaye
241 viklkg ytsw aiglsvadla etimknlrrv hpistavkgm hgikddvfls vpcvlgssgi
301 tdv vkmilkp deekikksa dtlwgiqkel qf
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